LIST OF CONTENTS

SEPTEMBER

Jiro Fujimoto, Masashi Hori, Satoshi Ichigo and Teruhiko Tamaya — 1 Sex steroids regulate the expression of plasminogen activator inhibitor-1 (PAI-1) and its mRNA in uterine endometrial cancer cell line Ishikawa

Tianshu Gao, Marco Marcelli and Michael J. McPhaul — 9 Transcriptional activation and transient expression of the human androgen receptor

Michelle Demeter Arlotto, M. Dodson Michael, Michael W. Kilgore and Evan R. Simpson — 21 17α-Hydroxylase gene expression in the bovine ovary: mechanisms regulating expression differ from those in adrenal cells

Bruce A. Lessey, Abiodun O. Ilesanmi, Arthur J. Castelbaum, Lingwen Yuan, Steven G. Somkuti, Pondichery G. Satyaswaroop and Kristof Chwalisz — 31 Characterization of the functional progesterone receptor in an endometrial adenocarcinoma cell line (Ishikawa): progesterone-induced expression of the α1 integrin

Pui-Kai Li, Shawn Milano, Lisa Kluth and Michael E. Rhodes — 41 Synthesis and sulfatase inhibitory activities of non-steroidal estrone sulfatase inhibitors

A. Bonfils, J. Humbert and D. Philibert — 49 RU 3117 a steroidal compound with high affinity for sigma sites in rat testis membranes

Jamal Almadhidi, Safa Moslemi, Michel A. Drosdowsky and Gilles-Eric Séralini — 55 Equine cytochrome P450 aromatase exhibits an estrogen 2-hydroxylase activity *in vitro*

C. Lobaccaro-Henri, B. Descomps and H. Thaler-Dao — 63 RU 38486 inhibits intracellular calcium mobilization and PGI2 release from human myometrium: mechanism of action

C. Schubert, J. Donath, H. Michna and Y. Nishino — 75 The antiovulatory activity of progesterone antagonists is not correlated to their antiprogestational potency in the rat

Kyle W. Selcer, Sharada Jagannathan, Michael E. Rhodes and Pui-Kai Li — 83 Inhibition of placental estrone sulfatase activity and MCF–7 breast cancer cell proliferation by estrone-3-amino derivatives

Jill M. O'Reilly and Robert W. Brueggemeier — 93 7α-Arylaliphatic androsta-1,4-diene-3,17-diones as enzyme-activated irreversible inhibitors of aromatase

Jacques Quivy, Guy Leclercq, Marcel Deblaton, Pierre Henrot, Nicolas Velings, Bernadette Norberg, Guy Evrard and Marc Zeicher — 103 Synthesis, structure and biological properties of *Z*-17α-(2-iodovinyl)-11β-chloromethyl estradiol-17β (*Z*-CMIV), a high affinity ligand for the characterization of estrogen receptor-positive tumors

Book Reviews — 119

OCTOBER

Mary E. Herman and Benita S. Katzenellenbogen — 121 Response-specific antiestrogen resistance in a newly characterized MCF-7 human breast cancer cell line resulting from long-term exposure to *trans*-hydroxytamoxifen

Erin C. Jacobs, Arthur P. Arnold and Anthony T. Campagnoni — 135 Zebra finch estrogen receptor cDNA: cloning and mRNA expression

Carlos Sonnenschein, Ana M. Soto and Cheryl L. Michaelson — 147 Human serum albumin shares the properties of estrocolyone-I, the inhibitor of the proliferation of estrogen-target cells

Jeffrey A. Dodge, Andrew L. Glasebrook, David E. Magee, David L. Phillips, Masahiko Sato, Lorri L. Short and Henry U. Bryant — 155 Environmental estrogens: effects on cholesterol lowering and bone in the ovariectomized rat

Changbao Zhou, Dujin Zhou, Jose Esteban, James Murai, Pentti K. Siiteri, Sharon Wilczynski and Shiuan Chen — 163 Aromatase gene expression and its exon I usage in human breast tumors. Detection of aromatase messenger RNA by reverse transcription–polymerase chain reaction

Zsuzsanna Vértes, J. L. Környei, S. Kovács and Marietta Vértes — 173 Opioids regulate cell proliferation in the developing rat uterus: effects during the period of sexual maturation

Oskari Heikinheimo, Jeng-Gwang Hsiu, Keith Gordon, Seokjoong Kim, Robert F. Williams, William E. Gibbons and Gary D. Hodgen 179 Endometrial effects of RU486 in primates— antiproliferative action despite signs of estrogen action and increased cyclin-B expression

Pascal Sourdaine, Peter Mullen, Roger White, June Telford, Malcolm G. Parker and William R. Miller 191 Aromatase activity and CYP19 gene expression in breast cancers

Ray V. Haning Jr, Umadevi Tantravahi, Qianying Zhao, Richard J. Hackett and Jacob A. Canick 199 5α-Reductase 1 and 2 expression and activity in human ovarian follicles, stroma and corpus luteum as compared to neonatal foreskin

Tea Lanišnik Rižner, Marija Žakelj-Mavrič, Ana Plemenitaš and Matjaž Zorko 205 Purification and characterization of 17β-hydroxysteroid dehydrogenase from the filamentous fungus *Cochliobolus lunatus*

M. M. Singh, R. N. Trivedi, S. C. Chauhan, V. M. L. Srivastava, A. Makker, S. R. Chowdhury and V. P. Kamboj 215 Uterine estradiol and progesterone receptor concentration, activities of certain antioxidant enzymes and dehydrogenases and histoarchitecture in relation to time of secretion of nidatory estrogen and high endometrial sensitivity in rats

M. D. Ferrández, M. de la Fuente, E. Fernández and R. Manso 225 Anabolic steroids and lymphocyte function in sedentary and exercise-trained rats

Gianna Fiorelli, Francesca Gori, Uliana Frediani, Francesco Franceschelli, Annalisa Tanini, Cristina Tosti-Guerra, Susanna Benvenuti, Luigi Gennari, Lucia Becherini and Maria Luisa Brandi 233 Membrane binding sites and non-genomic effects of estrogen in cultured human pre-osteoclastic cells

Book Reviews 241

NOVEMBER

Robert Snoek, Paul S. Rennie, Susan Kasper, Robert J. Matusik and Nicholas Bruchovsky 243 Induction of cell-free, *in vitro* transcription by recombinant androgen receptor peptides

Qiu-Xia Zhang, Sue G. Hilsenbeck, Suzanne A. W. Fuqua and Åke Borg 251 Multiple splicing variants of the estrogen receptor are present in individual human breast tumors

Dorraya El-Ashry, Susan A. Chrysogelos, Marc E. Lippman and Francis G. Kern 261 Estrogen induction of TGF-α is mediated by an estrogen response element composed of two imperfect palindromes

Célia Regina Nogueira and Maria Mitzi Brentani 271 Triiodothyronine mimics the effects of estrogen in breast cancer cell lines

D. E. Marshall, M. C. Dumasia, P. Wooding, D. B. Gower and E. Houghton 281 Studies into aromatase activity associated with fetal allantochorionic and maternal endometrial tissues of equine placenta. Identification of metabolites by gas chromatography mass spectrometry

Katherine H. Moore, Kenneth A. Bertram, Richard R. Gomez, M. J. Styner and Louis A. Matej 297 Sex hormone binding globulin mRNA in human breast cancer: detection in cell lines and tumor samples

L. D. Dikkeschei, B. G. Wolthers, I. Bos-Zuur, G. Brutel de la Rivière, G. T. Nagel, D. A. van der Kolk and P. H. B. Willemse 305 Optimization of a classical aromatase activity assay and application in normal, adenomatous and malignant breast parenchyma

Jerome V. A. Choate and John A. Resko 315 Effects of androgen on brain and pituitary androgen receptors and LH secretion of male guinea pigs

B. Lyoussi and J. Crabbé 323 Effects of corticosteroids on parameters related to Na^+ transport by amphibian renal distal cells (A6) in culture

B. Lyoussi and J. Crabbé 333 Effects of dexamethasone on $(Na^+ + K^+)$-ATPase and other parameters related to transepithelial Na^+ transport by amphibian renal distal cells (A6) in culture

P. Belvedere, G. Gabai, L. Dalla Valle, P. Accorsi, M. Trivoletti, L. Colombo and G. Bono 339 Occurrence of steroidogenic enzymes in the bovine mammary gland at different functional stages

Book Reviews 349

DECEMBER

Editorial
J. R. Pasqualini, C. Campagnoli, R. Druckmann, J. Huber, K. W. Schweppe, J. H. H. Thijssen and A. E. Schindler 357 Progestins: present and future

Michael E. Baker 365 Bacterial 3α-hydroxysteroid dehydrogenase is homologous to a fusion of bacterial ribosomal L10 and L7/12 genes

Kazuko Wada, Shintaro Nomura, Eiichi Morii, Yukihiko Kitamura, Yasuko Nishizawa, Akira Miyake and Nobuyuki Terada 367 Changes in levels of mRNAs of transforming growth factor (TGF)-β1, -β2, -β3, TGF-β type II receptor and sulfated glycoprotein-2 during apoptosis of mouse uterine epithelium

Nicholas J. Koszewski, Timothy A. Reinhardt and Ronald L. Horst 377 Vitamin D receptor interactions with the murine osteopontin response element

D. Sömjen, A. Waisman and A. M. Kaye 389 Tissue selective action of tamoxifen methiodide, raloxifene and tamoxifen on creatine kinase B activity *in vitro* and *in vivo*

Nicholas Bruchovsky, Marianne D. Sadar, Koichiro Akakura, S. Larry Goldenberg, Kei Matsuoka and Paul S. Rennie 397 Characterization of 5α-reductase gene expression in stroma and epithelium of human prostate

Mei-Ling Siu-Caldera, Jeffrey W. Clark, Anabela Santos-Moore, Sara Peleg, Yan Yun Liu, Milan R. Uskoković, Surendra Sharma and G. Satyanarayana Reddy 405 1α,25-dihydroxy-24-oxo-16-ene vitamin D_3, a metabolite of a synthetic vitamin D_3 analog, 1α,25-dihydroxy-16-ene vitamin D_3, is equipotent to its parent in medulating growth and differentiation of human leukemic cells

Jennifer H. Anolik, Carolyn M. Klinge, Colleen L. Brolly, Robert A. Bambara and Russell Hilf 413 Stability of the ligand-estrogen receptor interaction depends on estrogen response element flanking sequences and cellular factors

Ronald L. Kabler, Arvind Srinivasan, Laura J. Taylor, Joseph Mowad, Lawrence I. Rothblum and Alice H. Cavanaugh 431 Androgen regulation of ribosomal RNA synthesis in LNCaP cells and rat prostate

R. B. Myers, D. K. Oelschlager, R. D. Hockett, M. D. Rogers, B. A. Conway-Myers and W. E. Grizzle 441 The effects of dihydrotestosterone on the expression of $p185^{erbB-2}$ and c-erbB-2 mRNA in the prostatic cell line LNCaP

P. Van de Velde, F. Nique, P. Planchon, G. Prévost, J. Brémaud, M. C. Hameau, V. Magnien, D. Philibert and G. Teutsch 449 RU 58668: further *in vitro* and *in vivo* pharmacological data related to its antitumoral activity

Xilin Su, Linda Schuler and Sander Shapiro 459 Cloning and characterization of a glycogen synthase cDNA from human endometrium

Thomas C. Wood, Chengtao Her, Ibrahim Aksoy, Diane M. Otterness and Richard M. Weinshilboum 467 Human dehydroepiandrosterone sulfotransferase pharmacogenetics: quantitative Western analysis and gene sequence polymorphisms

Ronald Hobkirk 479 Sulfation by guinea pig chorion and uterus: differential action towards estrone and estradiol

Keiko Kobayashi, Shuji Ohno, Masato Shinoda, Satoshi Toyoshima and Shizuo Nakajin 485 Immunochemical distribution and immunohistochemical localization of 20β-hydroxysteroid dehydrogenase in neonatal pig tissues

A. M. Stoka 495 Activity of juvenile hormone and juvenile hormone analogues on the growth of *Trypanosoma cruzi*

Koichiro Akakura, Nicholas Bruchovsky, Paul S. Rennie, Andrew J. Coldman, S. Larry Goldenberg, Martin Tenniswood and Kelly Fox 501 Effects of intermittent androgen suppression on the stem cell composition and the expression of the TRPM–2 (clusterin) gene in the Shionogi carcinoma